RAW SEQUENCE LISTING
PATENT APPLICATION **US/09/459,808A**

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Input Set: **I459808A.RAW**

This Raw Listing contains the General Information Section and up to first 5 pages.

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<110> APPLICANT: Ashkenazi, Avi J.
<120> TITLE OF INVENTION: APO-2 LIGAND
<130> FILE REFERENCE: 11669.22US03
<140> CURRENT APPLICATION NUMBER: US/09/459,808A
<141> CURRENT FILING DATE: 1999-12-13
<150> EARLIER APPLICATION NUMBER: 08/584,031
<151> EARLIER FILING DATE: 1996-01-09
<160> NUMBER OF SEQ ID NOS: 17
<170> SOFTWARE: PatentIn Ver. 2.0
<210> SEQ ID NO 1
<211> LENGTH: 281
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 1

Met Ala Met Met Glu Val Gln Gly Gly Pro Ser Leu Gly Gln Thr Cys
1 5 10 15
Val Leu Ile Val Ile Phe Thr Val Leu Leu Gln Ser Leu Cys Val Ala
20 25 30
Val Thr Tyr Val Tyr Phe Thr Asn Glu Leu Lys Gln Met Gln Asp Lys
35 40 45
Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu Asp Asp Ser Tyr
50 55 60
Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser Pro Cys Trp Gln Val
65 70 75 80
Lys Trp Gln Leu Arg Gln Leu Val Arg Lys Met Ile Leu Arg Thr Ser
85 90 95
Glu Glu Thr Ile Ser Thr Val Gln Glu Lys Gln Gln Asn Ile Ser Pro
100 105 110
Leu Val Arg Glu Arg Gly Pro Gln Arg Val Ala Ala His Ile Thr Gly
115 120 125
Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu
130 135 140
Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly
145 150 155 160
His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile
165 170 175
His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe
180 185 190
Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln
195 200 205
Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys
210 215 220
Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
225 230 235 240

Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile
245 250 255
Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala
260 265 270
Ser Phe Phe Gly Ala Phe Leu Val Gly
275 280

<210> SEQ ID NO 2
<211> LENGTH: 1042
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 2
tttcctcact gactataaaa gaatagagaa ggaagggctt cagtgaccgg ctgcctggct 60
gacttacagc agtcagactc tgacaggatc atggctatga tggaggtcca ggggggaccc 120
agcctgggac agacctgcgt gctgatcgtg atcttcacag tgctcctgca gtctctctgt 180
gtggctgtaa cttacgtgta ctttaccaac gagctgaagc agatgcagga caagtactcc 240
aaaagtggca ttgcttgttt cttaaaagaa gatgacagtt attgggaccc caatgacgaa 300
gagagtatga acagcccctg ctggcaagtc aagtggcaac tccgtcagct cgttagaaag 360
atgattttga gaacctctga ggaaaccatt tctacagttc aagaaaagca acaaaatatt 420
tctcccctag tgagagaaag aggtcctcag agagtagcag ctcacataac tgggaccaga 480
ggaagaagca acacattgtc ttctccaaac tccaagaatg aaaaggctct gggccgcaaa 540
ataaactcct gggaatcatc aaggagtggg cattcattcc tgagcaactt gcacttgagg 600
aatggtgaac tggtcatcca tgaaaaaggg ttttactaca tctattccca aacatacttt 660
cgatttcagg aggaaataaa agaaaacaca aagaacgaca aacaaatggt ccaatatatt 720
tacaaataca caagttatcc tgaccctata ttgttgatga aaagtgctag aaatagttgt 780
tggtctaaag atgcagaata tggactctat tccatctatc aaggggaat atttgagctt 840
aaggaaaatg acagaatttt tgtttctgta acaaatgagc acttgataga catggaccat 900
gaagccagtt ttttcggggc ctttttagtt ggctaactga cctggaaaga aaaagcaata 960
acctcaaagt gactattcag ttttcaggat gatacactat gaagatgttt caaaaaatct 1020
gaccaaaaca aacaaacaga aa 1042

<210> SEQ ID NO 3
<211> LENGTH: 390
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 3
gggaccccaa tgacgaagag agtatgaaca gcccctgctg gcaagtcaag tggcaactcc 60
gtcagctcgt tagaaagatg attttgagaa cctctgagga aaccatttct acagttcaag 120
aaaagcaaca aaatatttct cccctagtga gagaaagagg tcctcagaga gtagcagctc 180
acataactgg gaccagagga agaagcaaca cattgtcttc tccaaactcc aagaatgaaa 240
aggctctggg ccgcaaaata aactcctggg aatcatcaag gagtgggcat tcattcctga 300
gcaacttgca cttgaggaat ggtgaactgg tcatccatga aaaagggttt tactacatct 360
attcccaaac atactttcga tttcaggagg 390

<210> SEQ ID NO 4
<211> LENGTH: 60
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<221> NAME/KEY: misc_feature
<222> LOCATION: (1)..(60)
<223> OTHER INFORMATION: Sequence is synthesized
<400> SEQUENCE: 4

tgacgaagag agtatgaaca gcccctgctg gcaagtcaag tggcaactcc gtcagctcgt 60

<210> SEQ ID NO 5
<211> LENGTH: 60
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<221> NAME/KEY: misc_feature
<222> LOCATION: (1)..(60)
<223> OTHER INFORMATION: Sequence is synthesized
<400> SEQUENCE: 5

ggtgaactgg tcatccatga aaaagggttt tactacatct attcccaaac atactttcga 60

<210> SEQ ID NO 6
<211> LENGTH: 13
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<221> NAME/KEY: UNSURE
<222> LOCATION: (1)..(13)
<223> OTHER INFORMATION: Sequence is synthesized
<400> SEQUENCE: 6

Ser Met Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn
1 5 10

<210> SEQ ID NO 7
<211> LENGTH: 27
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<221> NAME/KEY: UNSURE
<222> LOCATION: (1)..(27)
<223> OTHER INFORMATION: Sequence is synthesized
<400> SEQUENCE: 7

Lys Tyr Ala Leu Ala Asp Ala Ser Leu Lys Met Ala Asp Pro Asn Arg
1 5 10 15
Phe Arg Gly Lys Asp Leu Pro Val Leu Asp Gln
20 25

<210> SEQ ID NO 8
<211> LENGTH: 24
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<221> NAME/KEY: UNSURE
<222> LOCATION: (1)..(24)
<223> OTHER INFORMATION: Sequence is synthesized
<400> SEQUENCE: 8

Met Gly His His His His His His His His His His Ser Ser Gly His
1 5 10 15
Ile Asp Asp Asp Asp Lys His Met
20

<210> SEQ ID NO 9
<211> LENGTH: 175

<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 9

```
Asp Pro Ala Gly Leu Leu Asp Leu Arg Gln Gly Met Phe Ala Gln Leu
 1               5                  10                  15
Val Ala Gln Asn Val Leu Leu Ile Asp Gly Pro Leu Ser Trp Tyr Ser
            20                  25                  30
Asp Pro Gly Leu Ala Gly Val Ser Leu Thr Gly Gly Leu Ser Tyr Lys
        35                  40                  45
Glu Asp Thr Lys Glu Leu Val Val Ala Lys Ala Gly Val Tyr Tyr Val
    50                  55                  60
Phe Phe Gln Leu Glu Leu Arg Arg Val Val Ala Gly Glu Gly Ser Gly
65                  70                  75                  80
Ser Val Ser Leu Ala Leu His Leu Gln Pro Leu Arg Ser Ala Ala Gly
                85                  90                  95
Ala Ala Ala Leu Ala Leu Thr Val Asp Leu Pro Pro Ala Ser Ser Glu
            100                 105                 110
Ala Arg Asn Ser Ala Phe Gly Phe Gln Gly Arg Leu Leu His Leu Ser
        115                 120                 125
Ala Gly Gln Arg Leu Gly Val His Leu His Thr Glu Ala Arg Ala Arg
    130                 135                 140
His Ala Trp Gln Leu Thr Gln Gly Ala Thr Val Leu Gly Leu Phe Arg
145                 150                 155                 160
Val Thr Pro Glu Ile Pro Ala Gly Leu Pro Ser Pro Arg Ser Glu
                165                 170                 175
```

<210> SEQ ID NO 10
<211> LENGTH: 132
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 10

```
Val Ser His Arg Tyr Pro Arg Ile Gln Ser Ile Lys Val Gln Phe Thr
 1               5                  10                  15
Glu Tyr Lys Lys Glu Lys Gly Phe Ile Leu Thr Ser Gln Lys Glu Asp
            20                  25                  30
Glu Ile Met Lys Val Gln Asn Asn Ser Val Ile Ile Asn Cys Asp Gly
        35                  40                  45
Phe Tyr Leu Ile Ser Leu Lys Gly Tyr Phe Ser Gln Glu Val Asn Ile
    50                  55                  60
Ser Leu His Tyr Gln Lys Asp Glu Glu Pro Leu Phe Gln Leu Lys Lys
65                  70                  75                  80
Val Arg Ser Val Asn Ser Leu Met Val Ala Ser Leu Thr Tyr Lys Asp
                85                  90                  95
Lys Val Tyr Leu Asn Val Thr Thr Asp Asn Thr Ser Leu Asp Asp Phe
            100                 105                 110
His Val Asn Gly Gly Glu Leu Ile Leu Ile His Gln Asn Pro Gly Glu
        115                 120                 125
Phe Cys Val Leu
    130
```

<210> SEQ ID NO 11
<211> LENGTH: 151

<210> SEQ ID NO 11
<211> LENGTH: 150
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 11

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Gln Gln Gln Leu Pro Leu Glu Ser Leu Gly Trp Asp Val Ala Glu Leu
 1               5                  10                  15
Gln Leu Asn His Thr Gly Pro Gln Gln Asp Pro Arg Leu Tyr Trp Gln
            20                  25                  30
Gly Gly Pro Ala Leu Gly Arg Ser Phe Leu His Gly Pro Glu Leu Asp
        35                  40                  45
Lys Gly Gln Leu Arg Ile His Arg Asp Gly Ile Tyr Met Val His Ile
    50                  55                  60
Gln Val Thr Leu Ala Ile Cys Ser Ser Thr Thr Ala Ser Arg His His
65                  70                  75                  80
Pro Thr Thr Leu Ala Val Gly Ile Cys Ser Pro Ala Ser Arg Ser Ile
                85                  90                  95
Ser Leu Leu Arg Leu Ser Phe His Phe His Gln Gly Cys Thr Ile Val
            100                 105                 110
Ser Gln Arg Leu Thr Pro Leu Ala Arg Gly Asp Thr Leu Cys Thr Asn
        115                 120                 125
Leu Thr Gly Thr Leu Leu Pro Ser Arg Asn Thr Asp Glu Thr Phe Phe
    130                 135                 140
Gly Val Gln Trp Val Arg Pro
145                 150
```

<210> SEQ ID NO 12
<211> LENGTH: 148
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 12

```
Leu Cys Ile Leu Lys Arg Ala Pro Phe Lys Lys Ser Trp Ala Tyr Leu
 1               5                  10                  15
Gln Val Ala Lys His Leu Asn Lys Thr Lys Leu Ser Trp Asn Lys Asp
            20                  25                  30
Gly Ile Leu His Gly Val Arg Tyr Gln Asp Gly Asn Leu Val Ile Gln
        35                  40                  45
Phe Pro Gly Leu Tyr Phe Ile Ile Cys Gln Leu Gln Phe Leu Val Gln
    50                  55                  60
Cys Pro Asn Asn Ser Val Asp Leu Lys Leu Glu Leu Leu Ile Asn Lys
65                  70                  75                  80
His Ile Lys Lys Gln Ala Leu Val Thr Val Cys Glu Ser Gly Met Gln
                85                  90                  95
Thr Lys His Val Tyr Gln Asn Leu Ser Gln Phe Leu Leu Asp Tyr Leu
            100                 105                 110
Gln Val Asn Thr Thr Ile Ser Val Asn Val Asp Thr Phe Gln Tyr Ile
        115                 120                 125
Asp Thr Ser Thr Phe Pro Leu Glu Asn Val Leu Ser Ile Phe Leu Tyr
    130                 135                 140
Ser Asn Ser Asp
145
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<210> SEQ ID NO 13
<211> LENGTH: 157

VERIFICATION SUMMARY
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